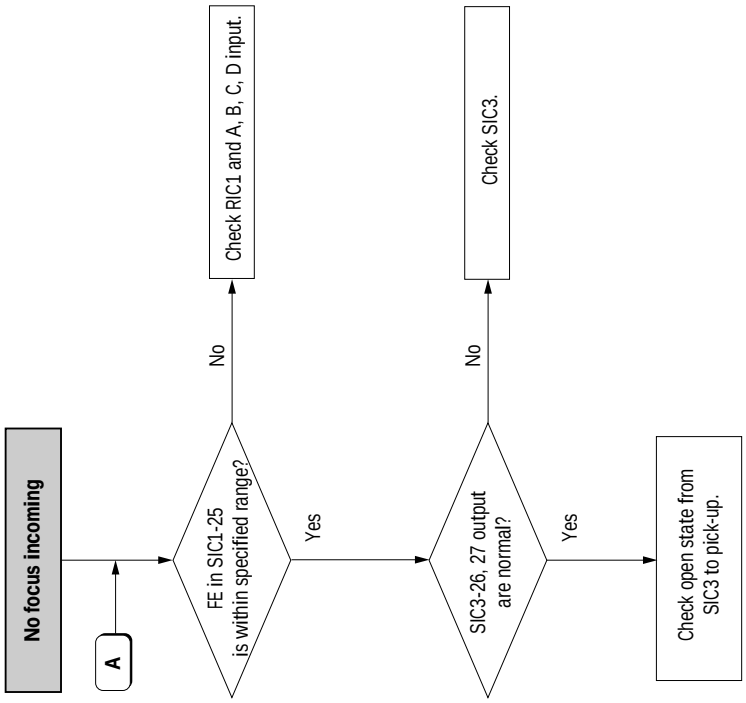
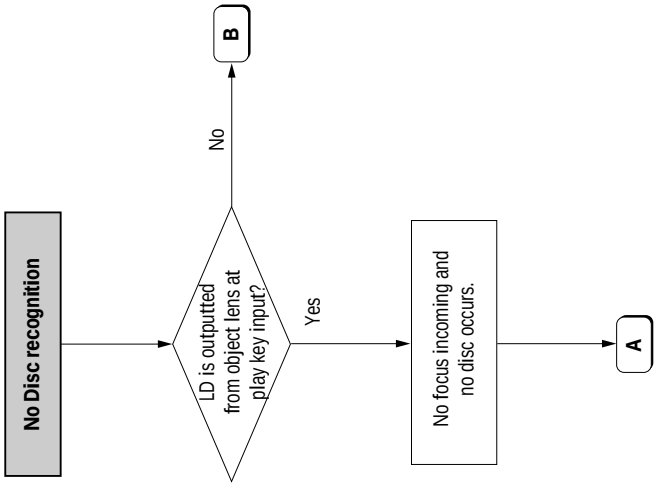
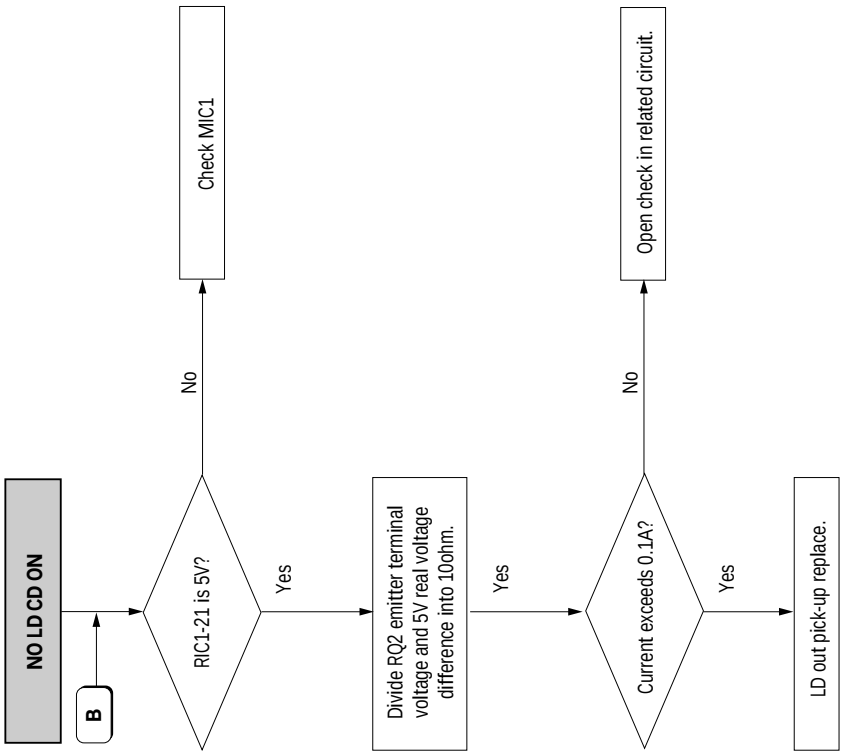
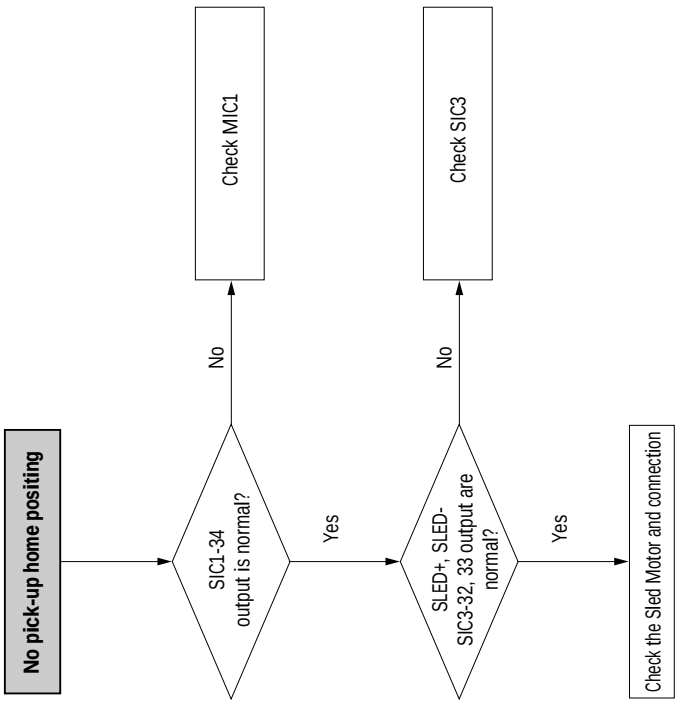
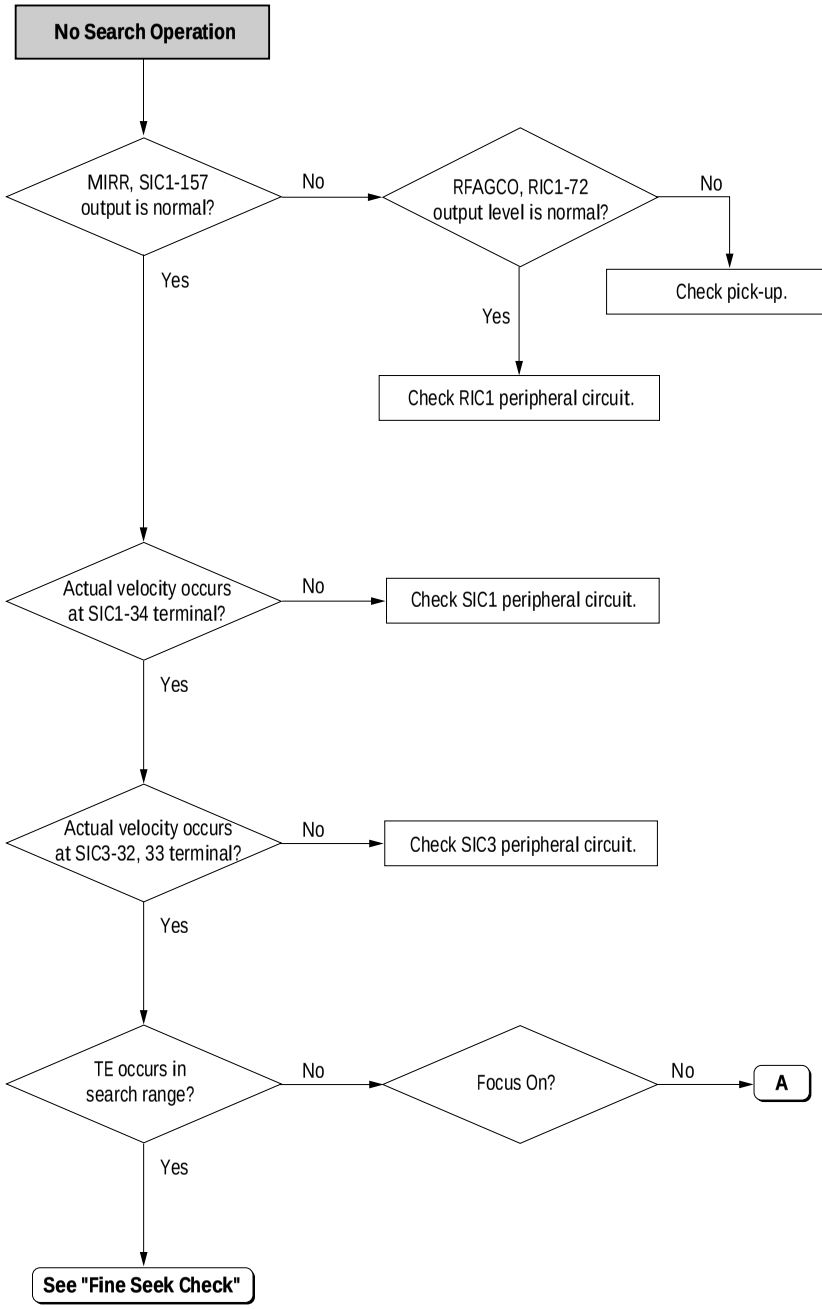
3. Troubleshooting

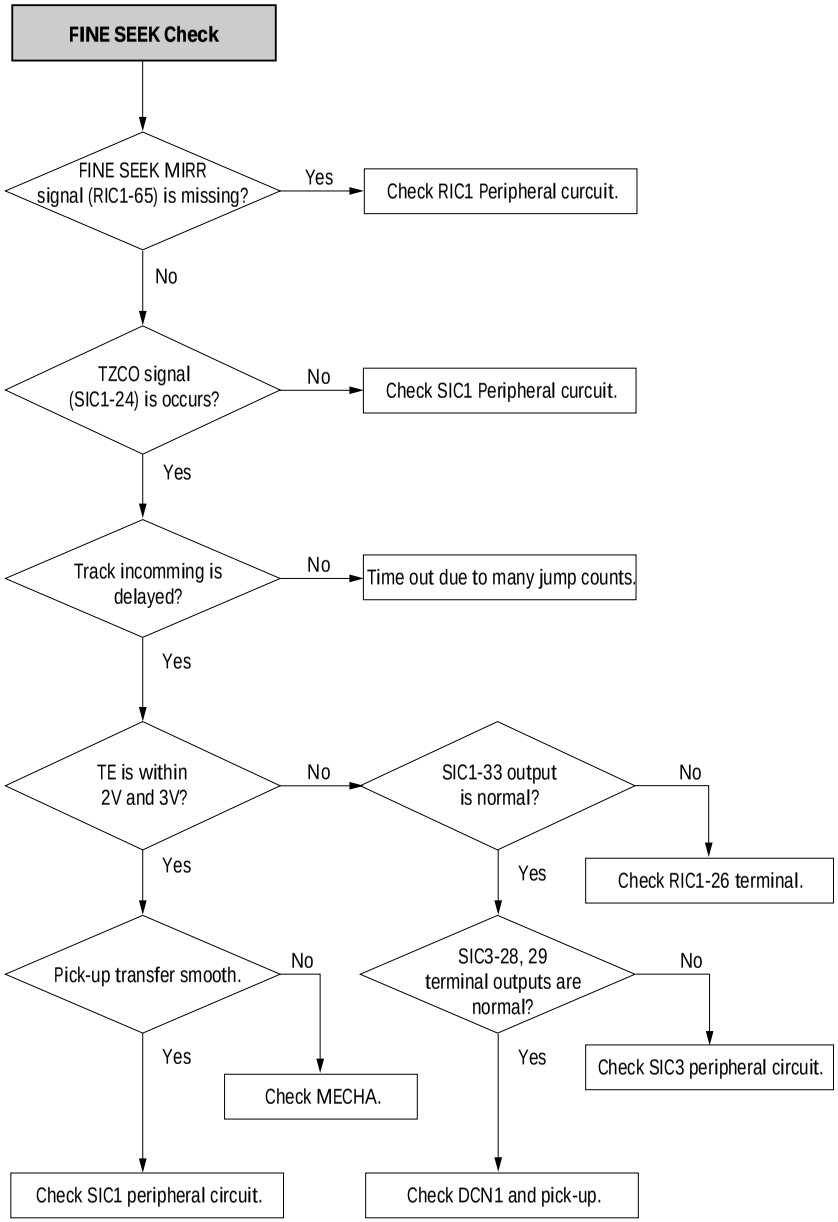


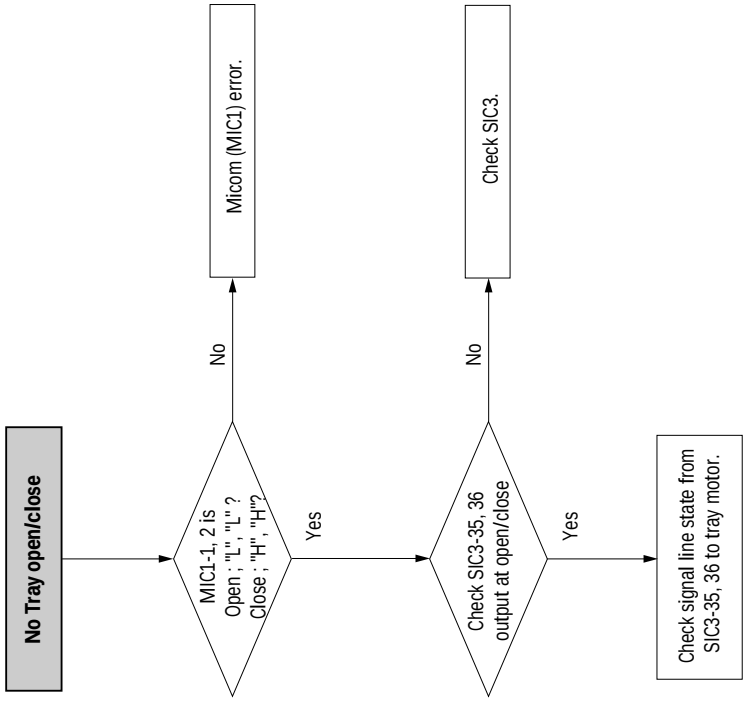


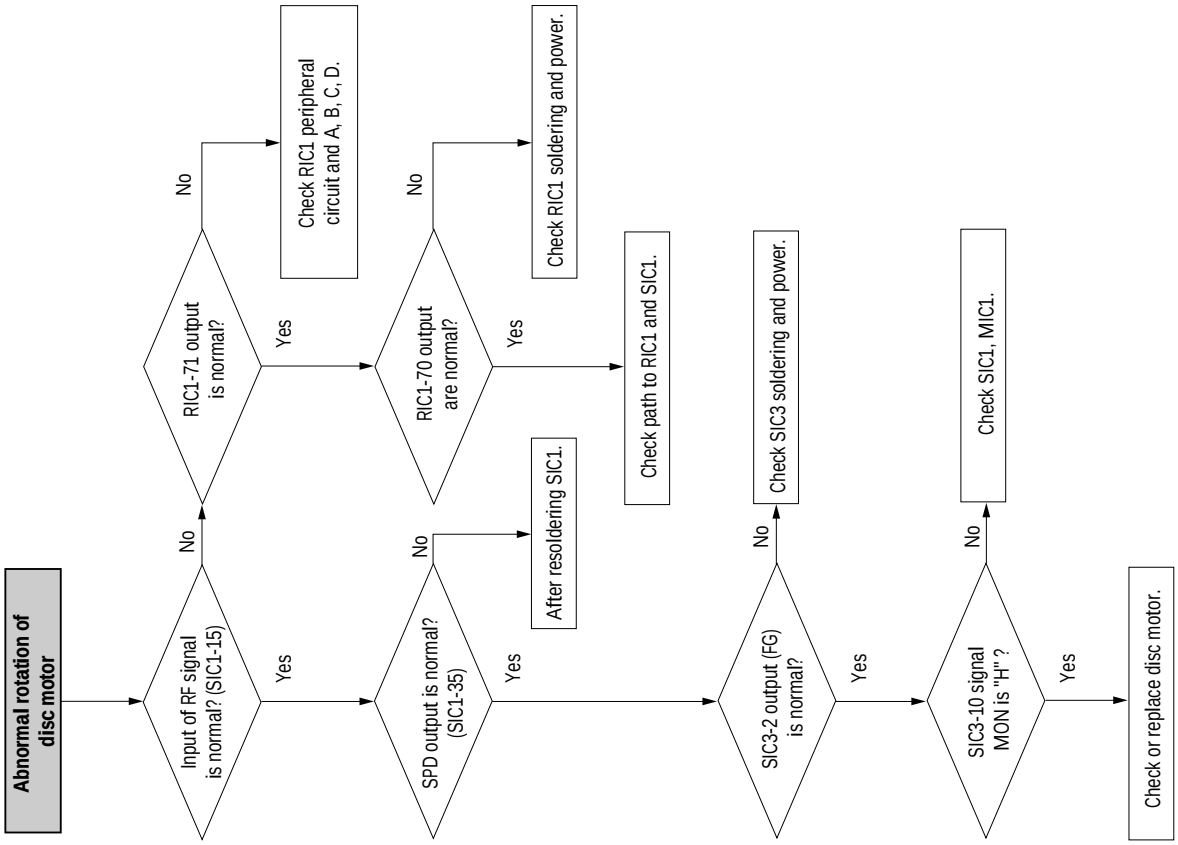

NO LD CD ON
B
RIC1-21 is 5V?
No
Check MIC1
Yes
Divide RQ2 emitter terminal voltage and 5V real voltage difference into 10ohm.
Yes
Current exceeds 0.1A?
No
Open check in related circuit.
Yes
LD out pick-up replace.

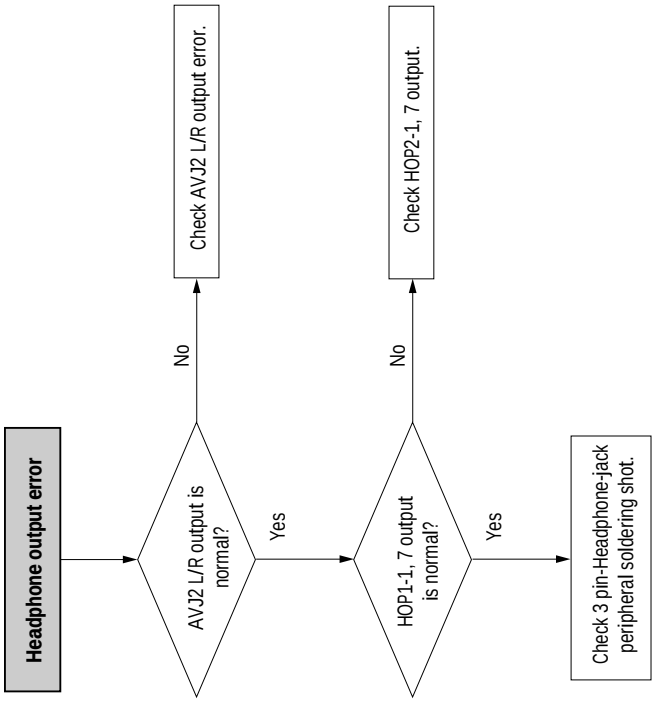

No pick-up home positing
SIC1-34 output is normal?
No
Check MIC1
Yes
SLED+, SLED- SIC3-32, 33 output are normal?
No
Check SIC3
Yes
Check the Sled Motor and connection

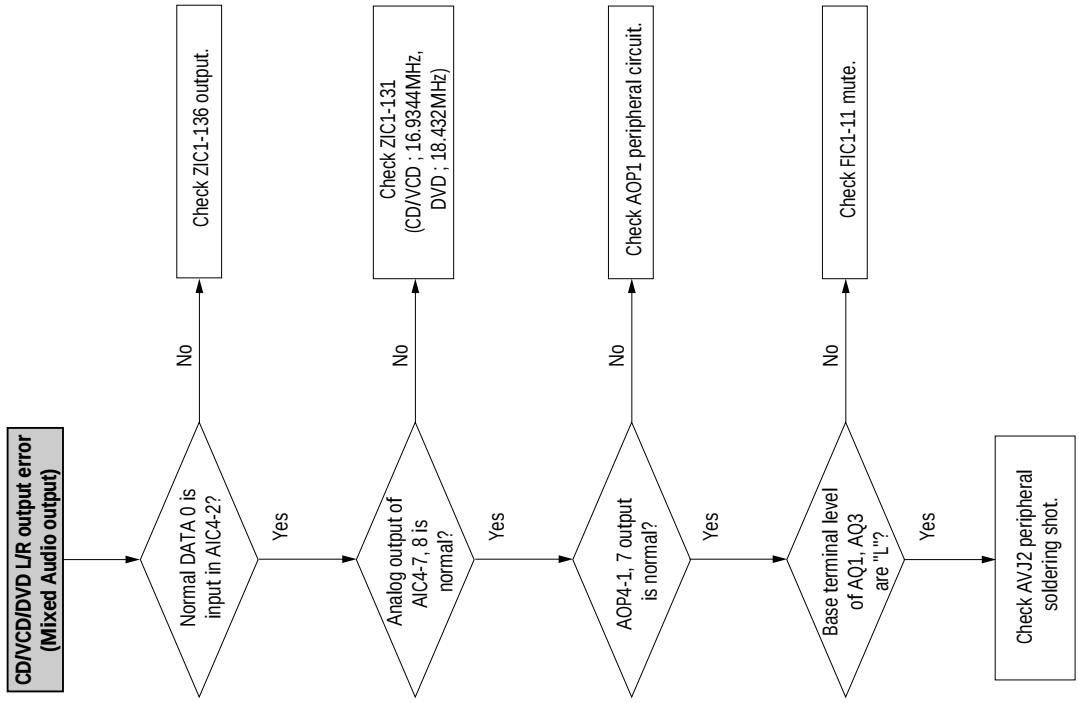

No Search Operation
MIRR, SIC1-157 output is normal?
No
RFAGCO, RIC1-72 output level is normal?
No
Check pick-up.
Yes
Check RIC1 peripheral circuit.
Yes
Actual velocity occurs at SIC1-34 terminal?
No
Check SIC1 peripheral circuit.
Yes
Actual velocity occurs at SIC3-32, 33 terminal?
No
Check SIC3 peripheral circuit.
Yes
TE occurs in search range?
No
Focus On?
No
A
Yes
See "Fine Seek Check"

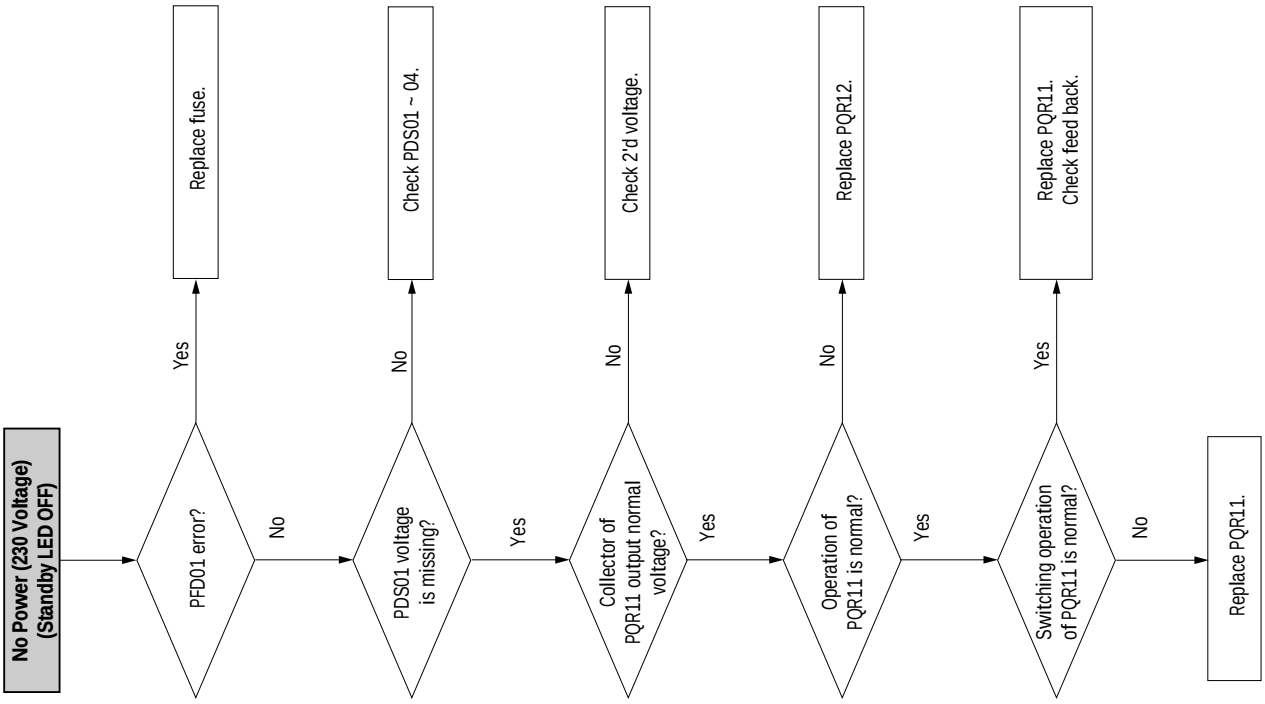

FINE SEEK Check
FINE SEEK MIRR signal (RIC1-65) is missing?
Yes
Check RIC1 Peripheral curcuit.
No
TZCO signal (SIC1-24) is occurs?
No
Check SIC1 Peripheral curcuit.
Yes
Track incomming is delayed?
No
Time out due to many jump counts.
Yes
TE is within 2V and 3V?
No
SIC1-33 output is normal?
No
Check RIC1-26 terminal.
Yes
Yes
Pick-up transfer smooth.
No
Check MECHA.
Yes
SIC3-28, 29 terminal outputs are normal?
No
Check SIC3 peripheral circuit.
Yes
Check SIC1 peripheral circuit.
Check DCN1 and pick-up.

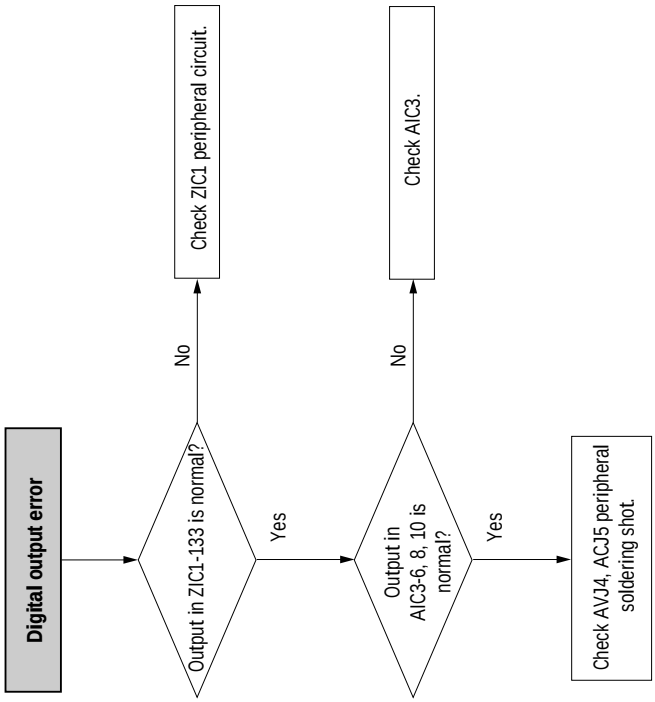

No Tray open/close
MIC1-1, 2 is Open ; "L", "L" ? Close ; "H", "H"?
No
Micom (MIC1) error.
Yes
Check SIC3-35, 36 output at open/close
No
Check SIC3.
Yes
Check signal line state from SIC3-35, 36 to tray motor.

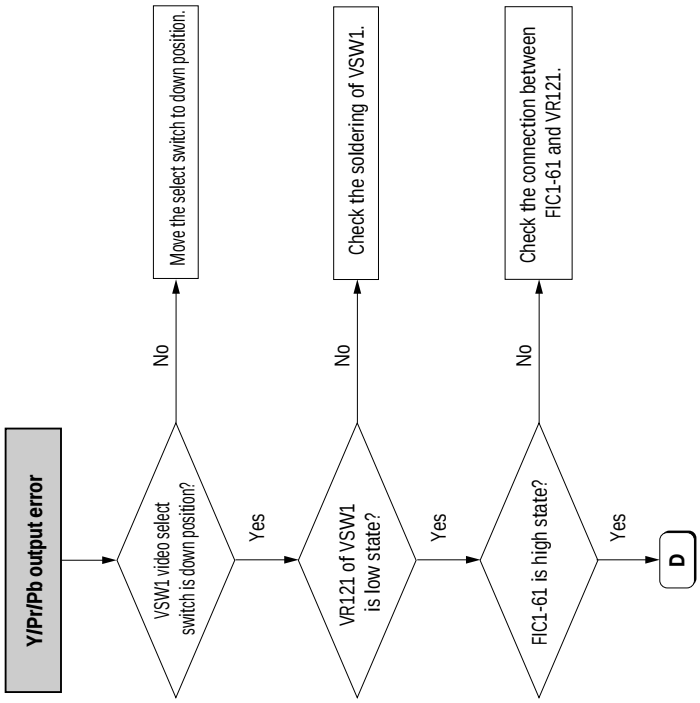

Abnormal rotation of disc motor
Input of RF signal is normal? (SIC1-15)
No
RIC1-71 output is normal?
No
Check RIC1 peripheral circuit and A, B, C, D.
Yes
RIC1-70 output are normal?
No
Check RIC1 soldering and power.
Yes
Check path to RIC1 and SIC1.
Yes
SPD output is normal? (SIC1-35)
No
After resoldering SIC1.
Yes
SIC3-2 output (FG) is normal?
No
Check SIC3 soldering and power.
Yes
SIC3-10 signal MON is "H" ?
No
Check SIC1, MIC1.
Yes
Check or replace disc motor.

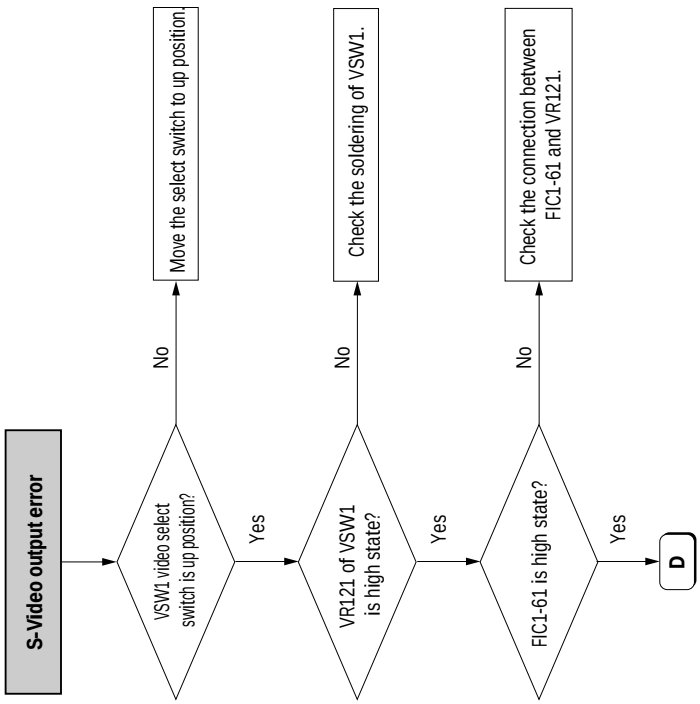

Headphone output error
AVJ2 L/R output is normal?
No
Check AVJ2 L/R output error.
Yes
HOP1-1, 7 output is normal?
No
Check HOP2-1, 7 output.
Yes
Check 3 pin-Headphone-jack peripheral soldering shot.

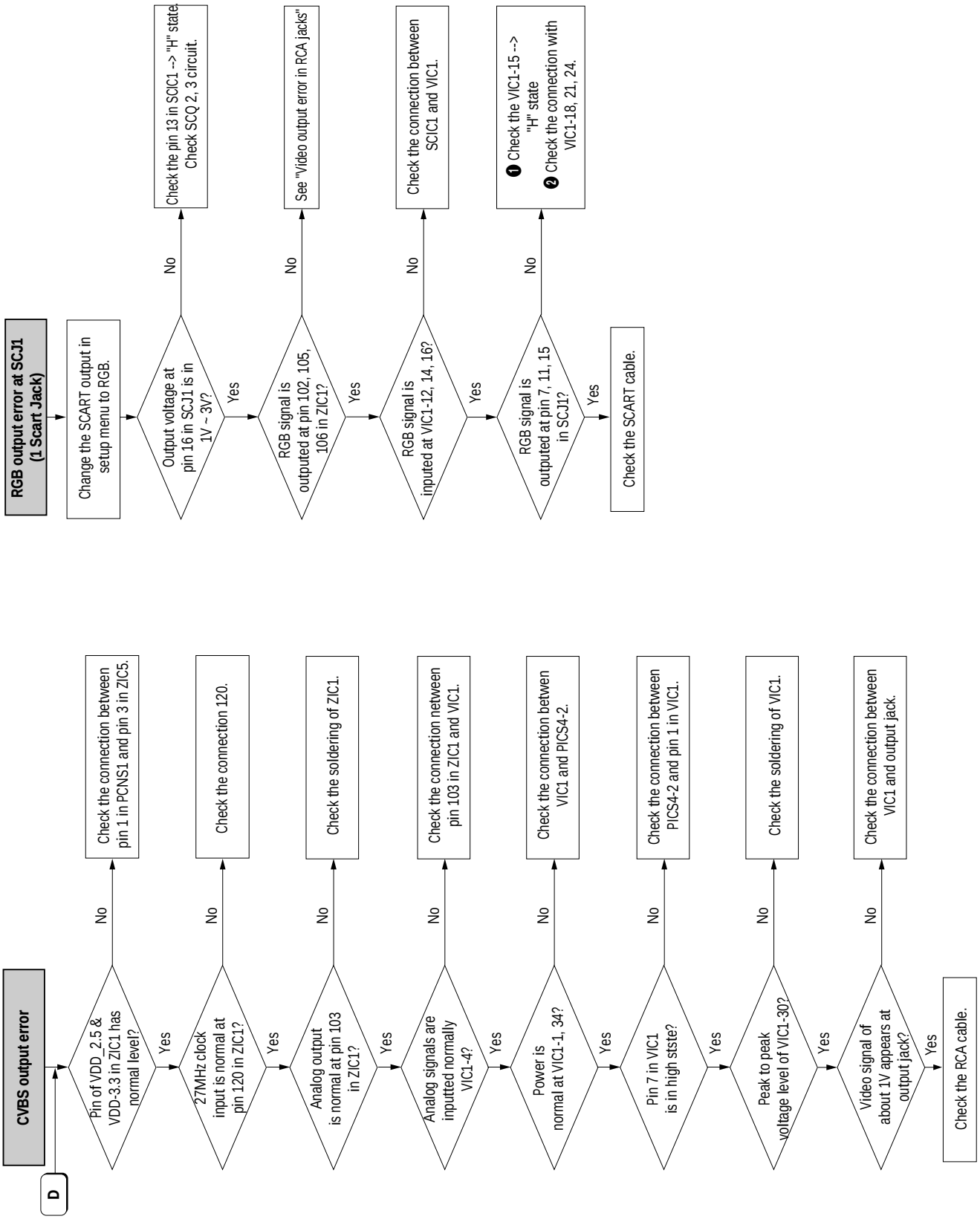

CD/VCD/DVD L/R output error (Mixed Audio output)
Normal DATA 0 is input in AIC4-2?
No
Check ZIC1-136 output.
Yes
Analog output of AIC4-7, 8 is normal?
No
Check ZIC1-131 (CD/VCD : 16.9344MHz, DVD : 18.432MHz)
Yes
AOP4-1, 7 output is normal?
No
Check AOP1 peripheral circuit.
Yes
Base terminal level of AQ1, AQ3 are "L"?
No
Check FIC1-11 mute.
Yes
Check AVJ2 peripheral soldering shot.

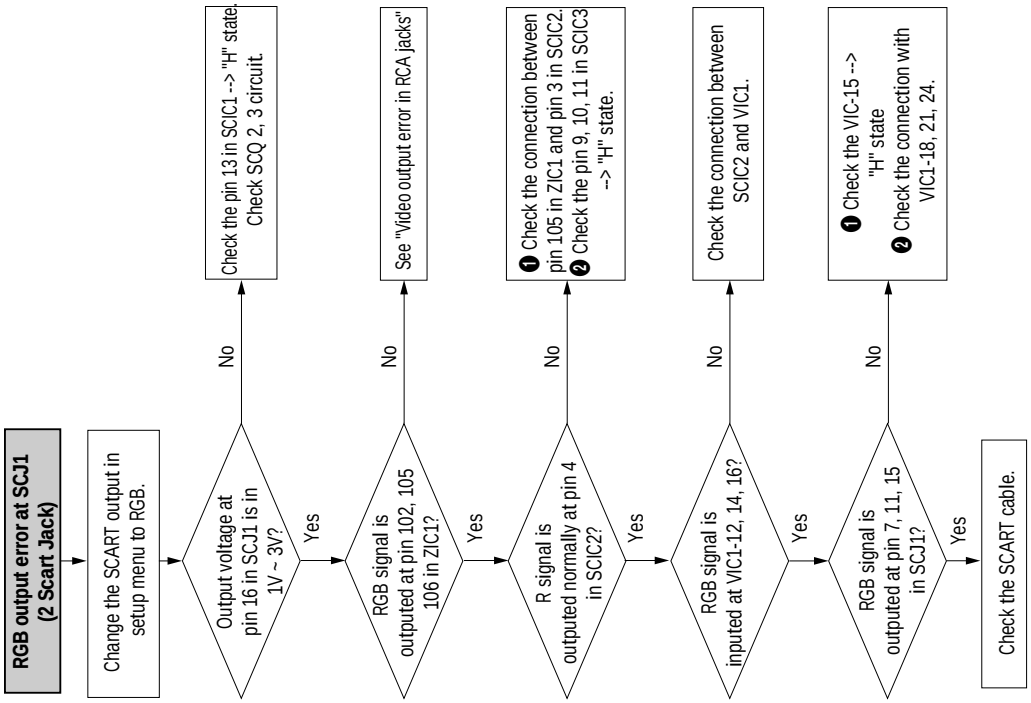

No Power (230 Voltage)
(Standby LED OFF)
PFD01 error?
Yes
Replace fuse.
No
PDS01 voltage
is missing?
No
Check PDS01 ~ 04.
Yes
Collector of
PQR11 output normal
voltage?
No
Check 2'd voltage.
Yes
Operation of
PQR11 is normal?
No
Replace PQR12.
Yes
Switching operation
of PQR11 is normal?
Yes
Replace PQR11.
Check feed back.
No
Replace PQR11.


Digital output error
Output in ZIC1-133 is normal?
No
Check ZIC1 peripheral circuit.
Yes
Output in
AIC3-6, 8, 10 is
normal?
No
Check AIC3.
Yes
Check AVJ4, ACJ5 peripheral
soldering shot.


Y/Pr/Pb output error
VSW1 video select switch is down position?
No
Move the select switch to down position.
Yes
VR121 of VSW1 is low state?
No
Check the soldering of VSW1.
Yes
FIC1-61 is high state?
No
Check the connection between FIC1-61 and VR121.
Yes
D


S-Video output error
VSW1 video select switch is up position?
No
Move the select switch to up position.
Yes
VR121 of VSW1 is high state?
No
Check the soldering of VSW1.
Yes
FIC1-61 is high state?
No
Check the connection between FIC1-61 and VR121.
Yes
D


CVBS output error
D
Pin of VDD_2.5 & VDD-3.3 in ZIC1 has normal level?
No
Check the connection between pin 1 in PCNS1 and pin 3 in ZIC5.
Yes
27MHz clock input is normal at pin 120 in ZIC1?
No
Check the connection 120.
Yes
Analog output is normal at pin 103 in ZIC1?
No
Check the soldering of ZIC1.
Yes
Analog signals are inputted normally VIC1-4?
No
Check the connection netween pin 103 in ZIC1 and VIC1.
Yes
Power is normal at VIC1-1, 34?
No
Check the connection betwen VIC1 and PICS4-2.
Yes
Pin 7 in VIC1 is in high stste?
No
Check the connection between PICS4-2 and pin 1 in VIC1.
Yes
Peak to peak voltage level of VIC1-30?
No
Check the soldering of VIC1.
Yes
Video signal of about 1V appears at output jack?
No
Check the connection between VIC1 and output jack.
Yes
Check the RCA cable.
RGB output error at SCJ1 (1 Scart Jack)
Change the SCART output in setup menu to RGB.
Output voltage at pin 16 in SCJ1 is in 1V ~ 3V?
No
Check the pin 13 in SCIC1 --> "H" state. Check SCQ 2, 3 circuit.
Yes
RGB signal is outputed at pin 102, 105, 106 in ZIC1?
No
See "Video output error in RCA jacks"
Yes
RGB signal is inputed at VIC1-12, 14, 16?
No
Check the connection between SCIC1 and VIC1.
Yes
RGB signal is outputed at pin 7, 11, 15 in SCJ1?
No
❶ Check the VIC1-15 --> "H" state
❷ Check the connection with VIC1-18, 21, 24.
Yes
Check the SCART cable.


RGB output error at SCJ1 (2 Scart Jack)
Change the SCART output in setup menu to RGB.
Output voltage at pin 16 in SCJ1 is in 1V ~ 3V?
No
Check the pin 13 in SCIC1 --> "H" state. Check SCQ 2, 3 circuit.
Yes
RGB signal is outputed at pin 102, 105 106 in ZIC1?
No
See "Video output error in RCA jacks"
Yes
R signal is outputed normally at pin 4 in SCIC2?
No
❶ Check the connection between pin 105 in ZIC1 and pin 3 in SCIC2. ❷ Check the pin 9, 10, 11 in SCIC3 --> "H" state.
Yes
RGB signal is inputed at VIC1-12, 14, 16?
No
Check the connection between SCIC2 and VIC1.
Yes
RGB signal is outputted at pin 7, 11, 15 in SCJ1?
No
❶ Check the VIC-15 --> "H" state ❷ Check the connection with VIC1-18, 21, 24.
Yes
Check the SCART cable.

MEMO